

User Manual

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2.0 Cautions

- Do not try to disassemble the camera by yourself, which may damage the camera or cause electric shock.
- Do not fire the flash in a close distance (less than 1 meter); it may hurt your eyes.
- Keep the camera away from the reach of children or animals to prevent them from swallowing the battery or small accessories.
- Stop using the camera if any kind of liquid or foreign object enters the camera. If it happens, power off the camera and contact your dealer for help.
- Do not operate this camera with wet hands; it may cause electric shock.
- The camera may be damaged in an environment of high temperature.
- To avoid electricity leakage, please remove the battery if the camera is expected not to be in use for a long period.
- It is normal that the temperature of the camera body rises if the camera works for a long time.

Small Tip to Save You Big Headache

A digital camera is in a way very similar to a computer. If the digital camera hangs itself during operation, please follow the procedures below and most likely the camera can be re-activated.

1. Remove the battery.
2. Reload the battery.
3. Switch on the camera.

3.0 Overall Introduction

3.1 Accessories

User Manual



USB Cable



Wrist Strap



Camera Pouch

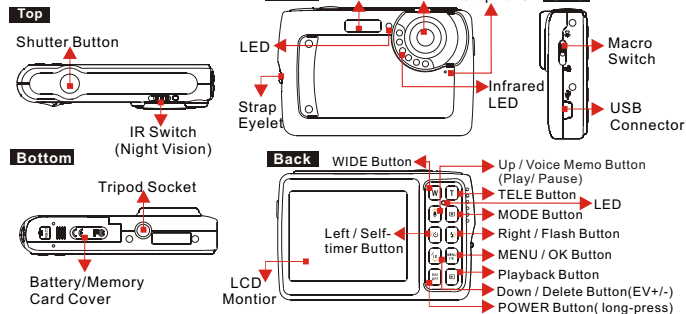


Li-ion Battery



3.0 Overall Introduction

3.2 External View



3.3 Display Information



1 (😊) Face Detection

2 Working & Scene Mode

- (📷) Image Shooting Mode
- (📺) Playback Mode
- (📽) Movie Clip Mode
- (🎤) Voice Recording Mode
- (📷) Auto Mode
- (📷) Smart Mode
- (📷) Portrait Mode
- (📷) Night Mode
- (📷) Program Mode
- (📷) Landscape Mode
- (📷) Transform Mode
- (📷) Backlight Mode
- (📷) Auction Mode
- (📷) Sport Mode
- (📷) Smile Shutter Mode
- (📷) Night Vision DSC
- (📷) Night Vision DV

3 Battery Status

- (🔋) Battery Full
- (🔋) Battery Half Drained
- (🔋) Battery Drained

4 Shooting

- (📷) Single
- (📷) Continuous
- (📷) AEB

5 Flash Mode

- (📷) Auto Flash
- (📷) Fill-in Flash
- (📷) Flash Off

6 Self-timer

- (📷) 10 Seconds
- (📷) 2 Seconds
- (📷) Double

7 Focus Range (📷) Macro

8 Voice Memo (📷)

9 Memory Card

- (📷) No Card
- (📷) Memory Card inserted

10 (📷)

WARNING: Low Light

11 Time & Date

12 Metering

- (📷) Multi
- (📷) Spot

13 EFFECT

- NORMAL (📷) SEPIA
- (📷) B&W (📷) NEGATIVE

14 EV

- (📷) Exposure +2EV (0.5 EV/Step)

15 White Balance

- Auto (📷) Fluorescent
- (📷) Daylight (📷) Tungsten
- (📷) Cloudy

16 Sharpness

- (📷) Soft
- (📷) Normal
- (📷) Vivid

17 Quality

- (📷) S. Fine
- (📷) Fine
- (📷) Normal

18 Image Size

- (12M) (by interpolation)
- (5M)
- (3M)
- (1M)

Video Size

- (720) 720 x 480
- (640) 640 x 480
- (320) 320 x 240

19

- (100) Available Shots or (00:00:24) Available Video Time

20

Zoom Status Indicator

- (📷)

4.0 Getting Ready

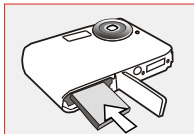
4.1 Turn on / off Camera




- ✦ Long-press the Power Button (approx. 2 seconds) to turn on the camera.
- ✦ Long-press the Power Button again to turn off the camera.



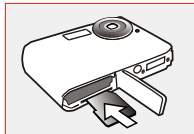
4.2 Inserting the battery

1. Power off the camera.
2. Push the battery cover following the arrow to open.
3. Insert the battery.
4. Close the battery cover.



- ✦ The indication of the battery status.
 - (): Battery power is full.
 - (): Battery power is half drained.
 - (): Battery power is drained. Replace with a new battery.
- ✦ The battery may run out if kept inside the camera and not in use for a long time.
- ✦ The battery may not work normally under 0°C or over 40°C.

Note: When battery power is drained, you can connect to PC or Notebook by USB cable for charging. When charging is completed, the red LED light will be off.



4.3 Insert / Remove a memory card

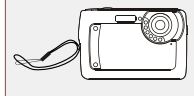
1. Power off the camera.
2. Open the battery cover.
3. Insert the memory card into the card slot and press it down until a click sound is heard.
4. Please press the memory card again to get it out once a click sound happens.

Note: There is no built-in memory available.



4.4 Attaching Wrist Strap

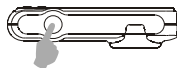
Make sure strap is properly fixed before you take it.



5.0 Buttons & Function

5.1 Shutter Button

Fully press the shutter button to capture an image.






5.2 Tele / Wide Button

- ✦ Press the Tele Button, the Zoom Bar Indicator appearing on the top side of the LCD Monitor will show the current zoom status. The camera allows maximum 5.0x digital zoom.



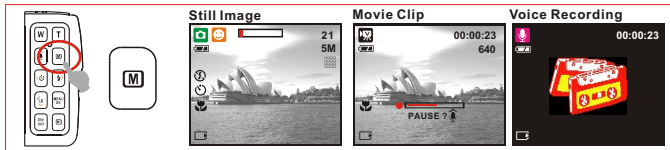
5.3 Up / Voice Memo Button

- ✦ Press the Up Button (↗) to move the cursor to the up tab in menu.
- ✦ Under Image Shooting Mode, you can press the Voice Memo Button () to have 10 seconds of voice memo after you release shutter.
- ✦ Under Playback Mode, you can press the Voice Memo Button () to have 10 seconds of voice memo after you release shutter.
- ✦ () icon will be displayed on the LCD under playback mode.

5.0 Buttons & Function

5.4 Mode Button

There are three modes.



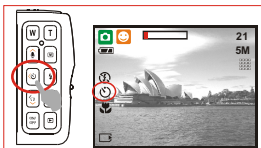
5.5 Left / Self-timer Button

Press the (<) Button to move the cursor to the left tab in menu. When the menu is not displayed on the LCD monitor, the Left Button operates as Self-timer function.

With the 10 sec. Self-timer (⏱): The image will be taken after an interval of 10 seconds once the Shutter Button is released.

With the 2 sec. Self-timer (⏱): The image will be taken after an interval of 2 seconds once the Shutter Button is released.

With the Double Self-timer (⏱): The image will be taken twice once the Shutter Button is released. The first image will be taken after 10 seconds and the second image 2 seconds after that.



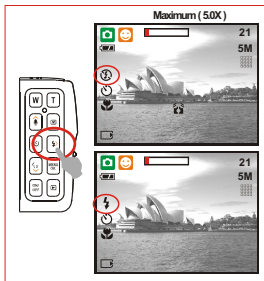
5.6 Right / Flash Button

Press the Right Button (>) to move the cursor to the right tab in menu.

Under Image Shooting Mode, the Right Button (>) operates as Flash function.

Press the Flash Button (⚡) you can select different flash options as follows.

	Auto Flash	The flash fires automatically as required under shooting mode.
	Fill-in Flash	This mode will enable the flash to fire in any circumstances.
	Flash Off	The mode will disable the flash to fire in any circumstances.



Note: "Low Light Warning"

(⚡) represents that the environment is considered dark and the shutter speed is slower than 1/30 sec. Please set the Flash Mode for "Auto" or "Fill-in" to avoid the blur image caused by the shaken camera.

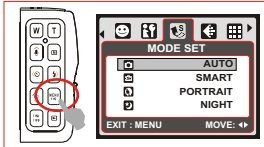
5.7 Down / Delete Button

Press the Down Button to move down the submenu cursor. In Playback Mode, you can press the Delete (🗑) Button to delete still images, movie clips and voice clips.




5.8 MENU / OK Button

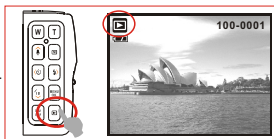
Press the Menu Button to go to the menu selection. Under Menu mode, press the OK Button to confirm the setting.




5.0 Buttons & Function

5.9 Playback Button

- Select the Playback Mode by pressing the Playback Button ().
- Playback Mode will show still images and movie clips.
- Select an image by pressing the Left and Right Buttons.





5.10 Macro Switch

Focus range: Normal: 1.2M~infinity Macro: 20cm
Note: Please make sure that the Focus is set correctly. Otherwise, the image will be out of focus.
Move the Macro Switch up to activate Macro function. The Macro icon () will appear on the LCD Monitor.





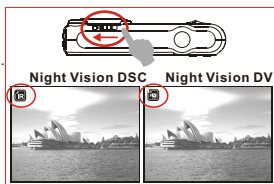
5.11 IR Switch & Night Vision

The Night Vision Function lets you shoot subjects in the dark places without using the flash such as camp scenes at night or nocturnal plants and animals. Note that images/video recorded using the Night Vision function will become monochrome(black and white).

- Under DSC/ DV mode, setting IR Switch to IR, it will enter the Night Vision DSC()/DV() mode.
- Set the IR switch back for normal DSC/DV mode setting.

Note: While using the Night Vision function, the settings available will be limited (ex. flash will be disabled).

Note: Hot key for switching off OSD display: under Night Vision DSC()/DV() mode, you can short-press Power button to switch off the OSD information.



6.0 DSC Mode

6.1 Shooting

Taking a Picture

- Press the POWER Button to power on the camera.
- Make sure the camera is at still shooting mode.
- Press the TELE Button to zoom in.
- Press the Shutter Button to capture the image.



6.2 Function Introduction

6.2.1 Flash

Please refer to 5.6 Flash description on Page 5.

6.2.2 Self-timer

Please refer to 5.5 Self-timer on Page 5.

6.2.3 Macro

Please refer to 5.10 Macro on Page 6.

6.2.4 EV












Under Image Shooting Mode, after pressing down Delete / Down button, you can easily adjust the

value of the exposure by left /right button from +2.0EV to -2.0EV (at 0.5EV increments).

6.2.5 Menu Mode

6.2.5.1 Mode Set

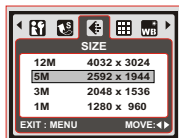
This feature is for you to choose the scene of the image from the following options.

- | | |
|--|--|
| () Auto Mode | () Transform Mode |
| () Smart Mode | () Backlight Mode |
| () Portrait Mode | () Auction Mode |
| () Night Mode | () Sport Mode |
| () Program Mode | () Smile Shutter Mode |
| () Landscape Mode | |

Note:

- Under Smart Mode, the camera automatically detects and adjusts the scene mode according to shooting condition when previewing.
- Transform Mode could make the subject look slimmer or stretched wider. Under Transform Mode, you can press Menu Button to find the transform settings. There are 4 levels from -10%(slim) to +10%(stretched).
- Under Smile Shutter Mode, when taking a portrait photo, the camera will auto detect the smile and release shutter at the same time.

6.0 DSC Mode



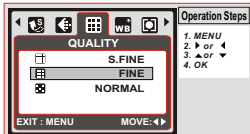
6.2.5.2 Size

Image Size is to select the image resolution. (12M) 4032 x 3024 (by interpolation) (5M) 2592 x 1944 (3M) 2048 x 1536 (1M) 1280 x 960

6.2.5.3 Quality

Quality is to select the appropriate compression ratio for the captured and recorded images.

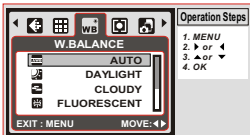
(S) S. Fine (F) Fine (N) Normal



6.2.5.4 White Balance

In Program Mode (P), select WB of Menu Mode.

Auto	Adjust the white balance automatically
Daylight	For strong light environment
Cloudy	For cloudy light environment
Fluorescent	For fluorescent light environment
Tungsten	For tungsten light environment

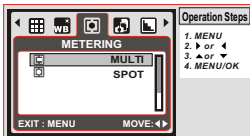


6.2.5.5 Metering

In Program Mode (P), select Metering of Menu Mode. Metering provides more superior exposure condition and brighter pictures.

Multi Metering: Exposure will be evaluated according to the average of the available light source in the image area. This is suitable for general use.

Spot Metering: If the subject is against the light source or has little contrast, you can use this function to make the subject brighter.



6.2.5.6 Shooting

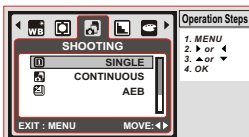
In Program Mode (P), select Shooting of Menu Mode.

1. SINGLE: No continuous shooting.
2. CONTINUOUS: You can have the continuous shooting function starting by pressing and holding the Shutter Button and ending by releasing the Shutter Button.
3. AEB (Auto Exposure Bracketing)

Take three pictures in a series in different exposures, short exposure (-0.5EV), standard exposure (0.0EV) and over exposure (+0.5EV).

Note: The continuous shooting function will not be canceled until "SINGLE" is selected.

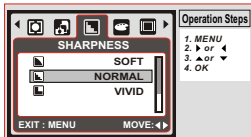
Note: When Continuous shooting or AEB function is selected, flash will be disabled.



6.2.5.7 Sharpness

In Program Mode (P), select Sharpness of Menu Mode.

Soft	This effect can make the edge of the captured image look smoother, which is suitable for image editing on PC.
Normal	This effect can make the edge of the captured image look sharp, which is suitable for printing out.
Vivid	This effect can make the edges of your captured image look sharper but may result in more image noise.

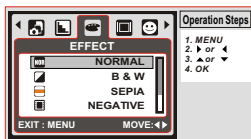


6.2.5.8 Effect

In Program Mode (P), select Effect of Menu Mode.

NORMAL	No special effect is added to the picture.
B & W	Turn the image into black and white.
SEPIA	Turn the image into yellowish brown.
NEGATIVE	Turn the image into negative film effect.

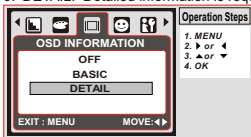
6.0 DSC Mode



6.2.5.9 OSD Information

There are 3 options for the OSD information.

1. OFF: Only working & scene mode icon is required.
2. BASIC: Only basic information is required.
3. DETAIL: Detailed information is required.



6.2.5.10 Face Detection

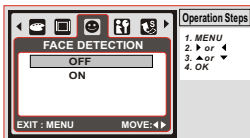
Face Detection allows you to focus on human faces. It is effective with the camera held horizontally or vertically.

Face Detection can only be used with still image. Face Detection is effective within a distance 2.5m.

Subjects not suitable for Face Detection:

1. The face is obscured by glasses, a hat or hair.
2. A person turned sideways, or who has his head lifted.
3. The subject is too far to be recognized as a face.

Note: The Face Detection () icon will be displayed on the top of the LCD Monitor.



7.0 DV Mode

7.1 Movie Recording

1. Press the Power Button to turn on the camera.
2. Press the Mode Button to change to Movie Clip Mode ().
3. Press the Shutter Button to start or stop movie recording.
4. Press the UP Button to pause / resume during recording.



7.2 Function Introduction

7.2.1 Movie Mode

Press the Mode Button and switch to Movie Mode.

7.2.2 Self-timer

Please refer to 5.5 Self-timer on Page 5.

7.2.3 Macro Mode

Please refer to 5.10 Macro Mode on Page 6.

7.2.4 EV

Please refer to 6.2.4.EV on Page 6.

7.2.5 Menu Mode

The video size options are provided as follows:
720 (720 x 480) 640 (640 x 480) 320 (320 x 240)

7.2.5.2 Metering

Please refer to 6.2.5.5 Metering on Page 7.

7.2.5.3 Effect

Please refer to 6.2.5.8 Effect on Page 7.

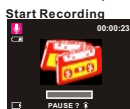
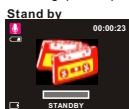
7.2.5.4 OSD Info

Please refer to 6.2.5.9 OSD Info on Page 8.

8.0 Voice Recording Mode


8.1 Voice Recording


1. Press the Mode Button and switch Voice Recording Mode ().
2. Press the Shutter Button to start the recording and press the Shutter Button to stop the recording.
3. During recording, press Up/Voice Memo Button to put the recording on hold and press it again to continue recording.



9.0 Playback Mode


9.1 Playback of Still Image


- ✦ Please press the Playback Button to view the images taken.
- ✦ Press the Right or Left Button to go to the next or the previous image. Press the Delete () Button to delete the image.

Note: The icon () shows up when viewing a still image with a voice memo (Please refer to Page 4).




9.2 Playback of Movie Clip


- ✦ Press the Playback Button to play the Movie Clips.
- ✦ Press Up/Voice Memo to play or pause the movie clip when browsing a video file.
- ✦ During Video Playback, press the Left Button for Rewind, press the Right Button for Fast forward.
- ✦ Press the Delete () Button to delete the movie clip.

Note: The icon () on the top left of the LCD Monitor represents a Movie clip, not a still image.

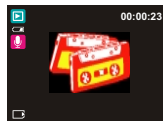


9.3 Playback of Voice Clip

- ✦ Press the Playback Button to browse the Audio Clips.
- ✦ Press the Delete () Button to delete the Voice clip.

Note: The icon () on the top left of the LCD Monitor represents an audio clip, not a still image or movie clip.

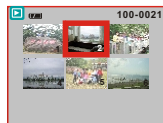
Note: Please connect with PC by USB cable to play the audio clip on PC.



9.4 Thumbnail Display

Thumbnail Display is a convenient tool for you to find the image you took from the list. In Playback Mode, you can press WIDE Button to have Thumbnail Display.

(Press OK or TELE Button to go back to normal Playback display.)



9.5 Enlargement

1. Select a file and press the Tele Button to enlarge the selected image or file.
2. Press and hold the Tele Button to enlarge the image to up to 8.0X. (Depending on the original size of image.)
3. Use the UP/DOWN/LEFT/RIGHT Button to explore the image and check the focus.
4. Press and hold the Wide Button to return the image to its normal size.



Enlargement

9.6 Photo Exif

1. Long-press the Playback Button to have Photo Exif.
2. The image information will be displayed on the below of LCD Monitor.
3. Long-press the Playback Button to cancel the display.




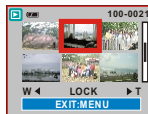
9.0 Playback Mode

9.7 Menu Mode


9.7.1 Protect

Set selected image(s) with Protection

1. In Playback Mode, press the Menu Button and select "Protect" and "Select".
2. Press the OK Button to confirm the request.
3. Select one image and press the TELE/ WIDE Button to lock the image.
4. () will show on the LCD monitor when the protection is set.
5. Press the TELE/ WIDE Button again to cancel the protection.



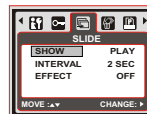
Set all images with Protection

1. Press the Menu Button and select "Protect" and "All".
2. Press the OK Button to confirm the request.
3. () will show on the LCD Monitor when the protection is set.
4. Press the OK Button again to cancel the protection.



9.7.2 Slide

1. This option enables you to view your photos with slide show.
2. Press the Menu Button and select "SLIDE".
3. There are 3 interval options available.
 - (a) Show: Play, Repeat
 - (b) Interval: 2, 3, 5, 10 sec.
 - (c) Effect: Effect 1, 2, 3, 4, MIX
4. Select the OK Button to confirm the request.



9.7.3 Delete

Delete single image

1. Select the image you want to delete and press the Menu Button and select "DELETE" and "ONE".
2. Press the OK Button to confirm the request or select cancel to give up the request.



Delete all image(s)

Select "DELETE" and "ALL" and press the OK Button to confirm the request or select cancel to give up the request.

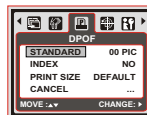
9.7.4 DPOF

✦ This function can only be used when a memory card is inserted.

✦ This option allows you to put the print quantity (MAX.30 pcs) on your memory card.

[ONE PIC] - specifies the number of copies for a selected image.

[ALL PICS] - specifies the number of copies for all pictures apart from movie clips and voice recording files.



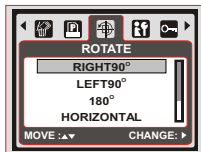
Note: You cannot see the "PRINT" function on the LCD Monitor if a memory card is not inserted.

9.0 Playback Mode

9.7.5 Rotate


With this setting you can rotate the image by RIGHT 90°, LEFT 90°, 180°, HORIZONTAL and VERTICAL.

1. Choose the image you want to rotate.
2. Press the Menu Button and choose "ROTATE".
3. Choose the rotation you prefer and press the OK Button.
4. The image after rotation will be stored as a new image.

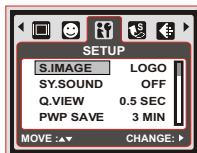


10.0 SETUP Mode

10.1 General Introduction

You can enter Setup Mode by pressing the MENU Button and select "Setup" ().

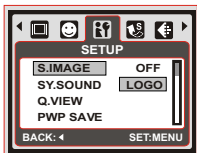
- | | |
|------------------------------|---------------|
| 1. S. Image (Start Image) | 7. Language |
| 2. SYS. Sound (System Sound) | 8. File |
| 3. Q. View (Quick View) | 9. Frequency |
| 4. Power Save | 10. Reset All |
| 5. Imprint | 11. Format |
| 6. Date & Time | |



10.2 Start Image (Default: LOGO)

To set up the start-up image, please follow the steps below.

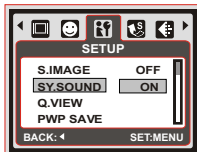
1. Press the Menu Button and select "Setup".
2. Select "S. IMAGE".
3. Select LOGO and press the OK Button to confirm the setting.
Or you can select "OFF" to not have a start-up image when power on the camera.



10.3 System Sound (Default: ON)

To set up the System Sound, please follow the steps below.

1. Press the Menu Button and select "SY.SOUND" and "ON", or
2. You can select "OFF" to turn off the System Sound.

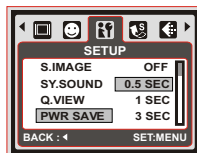


10.0 SETUP Mode

10.4 Q. View (Default: 0.5 SEC)

To set up the quick view time, please follow the steps below.

1. Select the time you prefer, or
2. You can select "OFF" to have no Quick View Time after capture.

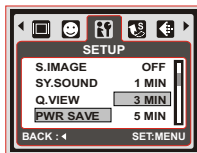


10.5 Power Save (Default: 3MIN)

To set up the power saving time, please follow the steps below.

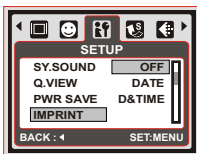
1. Select the time you prefer for the power saving and confirm the setting, or
2. You can select "OFF" to disable the power saving function.

Note: If it is set at "OFF", the camera will not turn off automatically. The battery may get drained quickly if the camera is turned on for a long time.



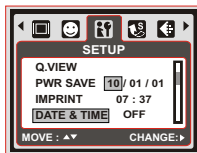
10.6 Imprint (Default: OFF)

This function allows you to print the date or date & time on the image.



10.7 Date & Time (Default: OFF)

This function allows you to select the type of the date & time and fill out the current date & time.



10.8 Language

There are 12 languages:

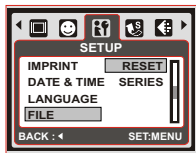
- | | | |
|-------------|----------------|-------------------------|
| 1. English | 6. Italian | 11. Simplified Chinese |
| 2. Japanese | 7. Turkish | 12. Traditional Chinese |
| 3. French | 8. Russian | |
| 4. German | 9. Thai | |
| 5. Spanish | 10. Portuguese | |



10.0 SETUP Mode

10.9 File (Default: RESET)

This setting allows you to name the files. If SERIES is selected, the file name will follow the latest stored file name. If RESET is selected, the next file name will be set from 0001 even after formatting, deleting all, or inserting a new memory card.

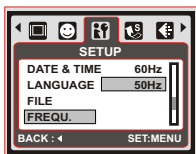


10.10 Frequency

The light frequency setting is for anti-flicker.

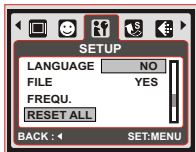
60Hz: USA, Taiwan, Korea, Japan.

50Hz: UK, Germany, Italy, Spain, France, Netherlands, China, Japan, Portugal.



10.11 Reset All (Default: NO)

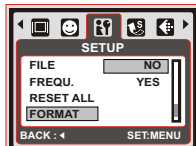
This option provides the function of recalling all default setting except the Date, Time, Language and Light Frequency.



10.12 Format (Default: NO)

This function allows you to format the memory card.

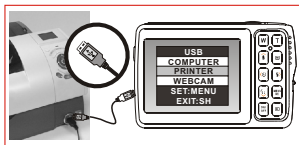
Note: All the data stored in the memory card will be deleted after the formatting.



11.0 PictBridge Mode

PictBridge-supported Mode

1. Power On the camera and the printer.
2. Use the supplied USB cable to connect the camera to the PictBridge supported printer.
3. Select PRINTER for printer connection and enter the PictBridge Mode.



11.1 IMAGE

Setting the Number of Copies to Print

1. Select "ONE PIC" or "ALL PICS". A screen where you can set the number of copies to print will appear on the screen.
2. Press the Up/Down Button to select the number of prints. Maximum 30 prints.
3. Use the Left/Right Button to select another picture and select the number of prints for another picture.
4. After setting the number of prints, press the OK Button to save.
5. Press the Playback Button to return to the menu without setting the number of prints.

[ONE PIC]: The PictBridge function will be applied only to the picture currently displayed.

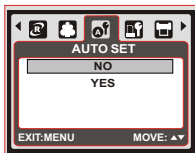
[ALL PICS]: The PictBridge function will be applied to all pictures. (Max. 99 prints).



11.2 AUTO SET

[YES]: All values in the "CUSTOM SET" are automatically changed.

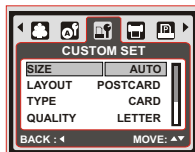
[NO]: "CUSTOM SET" values are kept.



11.3 CUSTOM SET

SIZE	Sets the size of the printing paper
LAYOUT	Sets the number of pictures to be printed on a sheet of paper
TYPE	Sets the type of the printing paper
QUALITY	Sets the quality of the picture to be printed
DATE	Sets whether to print the date
FILE NAME	Sets whether to print the file name

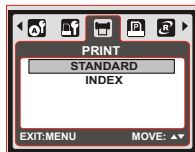
You can select the Paper Size, Print Format, Paper Type, Print Quality, Date Print, and File Name Print menus for printed pictures.



11.4 PRINT

[STANDARD]: Print the pictures stored in the memory card in set number. Each picture will be printed on one piece of paper.

[INDEX]: Print multiple images on one sheet of paper. Please press the OK Button to stop printing.



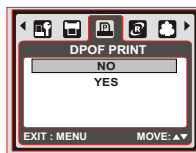
11.0 PictBridge Mode

11.5 DPOF PRINT

This function allows you to print the files with DPOF information.

[YES]: Directly print the file with the DPOF information.

[NO]: Cancel the printing; Depending on the manufacturer and printer model, some menus may not be available. If the camera is connected to a printer without supporting the DPOF, the menu is still displayed but the function is not available.



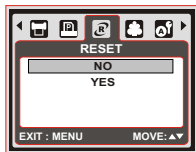
11.6 RESET

This function allows you to initialize user-changed configurations.

[YES]: All print and image settings will be reset back to the default.

[NO]: Settings will not be reset.

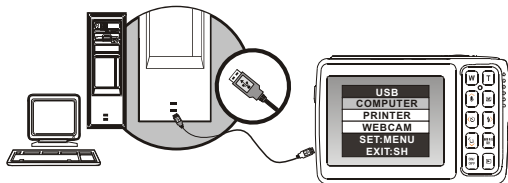
All default printer settings are based on those of the printer manufacturer.



12.0 USB Connection

12.1 Computer / Notebook Connection

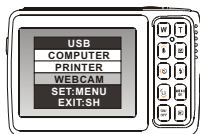
Use the supplied USB cable to connect the camera to your PC or Notebook. Select COMPUTER to enter the Computer Mode. In Computer Mode, you can download the images and files from camera to your computer.



12.2 Webcam Mode

After connecting with your PC or Notebook, select WEBCAM to enter the Webcam Mode. You can find the "USB Video Device" under Windows OS and start this function.

Note: UVC webcam driver supports XP(SP2)/ Vista/ Win7.



13.0 Specification

Image Sensor	5.0 Mega Pixels CMOS Sensor (Max. 12.0M via interpolation)
Lens	Type: Fixed Focus (F3.2/ f=5.2mm; 35mm Film Equivalent: 40mm)
Digital Zoom	Still Image: 1X~5X; Movie Clip: 1X~3X; Playback: 1X~8X
LCD	2.7" TFT LCD
Focusing Range	Normal & Night Vision: 1.2M~infinity; Macro: 20cm
Shutter Speed	Normal & Night Vision: 1/2 sec.~ 1/2000 sec.; Night Scene: 3 sec.~1/2000 sec.
Flash Mode	Auto, Fill-in Flash, Flash off
Metering	Multi, Spot
Sharpness	Soft, Normal, Vivid
Effect	Normal, B&W, Sepia, Negative
White Balance	Auto, Daylight, Cloudy, Fluorescent, Tungsten
Voice Recording	Yes, also supports Voice Memo under Still Image
Shooting	Single Image, Continuous Shooting, AEB
Self-timer	2 sec., 10 sec., Double
Scene Mode	Auto, Smart, Portrait, Night, Program, Landscape, Transform, Backlight, Auction, Sport, Smile Shutter
Image Size	12M (via interpolation), 5M, 3M, 1M
Movie Size	720x480(D1), 640x480(VGA), 320x240(QVGA); frame rate: 30fps
Storage Media	Supported Media Card: SD/SDHC Card (Supported up to 16GB); Internal Memory: N/A
File Format	Still Image: JPEG (DCF), EXIF 2.2, DPOF 1.1, PictBridge 1.0 Movie Clip: MJPEG, AVI Format with Audio PCM Audio: WAV format, monaural sound for Voice Recording
Playback	Single image, Thumbnails, Slide show, Movie Clip, Audio Clip, Rotation
Night-Vision	Supported, by manual switch; IR shooting distance: 2M; Monochrome under Night-Vision
Infrared System	DSC/DV; Frame rate will be decreased under Night-Vision
Interface	Digital output connector: USB 2.0 High Speed; Built-in Microphone; Buzzer out
Power Source	BL-5B Li-ion Battery; use standard USB interface for charging
Dimensions (WxHxD)	94mm x 61mm x 18.2mm
Weight	80g (without battery and card)
Mass Storage	Supported Win 2000/ME/XP/Vista/Win7 , Mac 10.0 or later
UVC Webcams driver	XP(SP2)/Vista /Win7 (Windows built-in driver)
Special Features	<ul style="list-style-type: none"> * Night-Vision Infrared Shot and Video supported * Voice Recording / Voice Memo * Face Detection, Smile Shutter, Smart Mode, Transform Mode, * Li-ion Battery * D1 (720x480) Digital Video Camcorder (DVC) * 2.7" TFT LCD * Webcam Function (UVC Driver Supported) * Slideshow Playback * 5M Slim-type DSC & Easy to use
System Requirement for Windows	<ul style="list-style-type: none"> * PC with processor better than Pentium II (500MHz) * Windows 2000 Professional (SP4)/ ME/ XP(SP2)/ Vista/ Win7 * Minimum 512MB RAM or above * USB port (1.1 or 2.0 Standard interface) * 800x600 pixels, 16-bit color display compatible monitor
System Requirement for Macintosh	<ul style="list-style-type: none"> * Power Mac G4 or later * Mac OS 10.0 or later * Minimum 512MB RAM or above * USB port

"Specifications and product design are subject to change without any notice for further improvement."